CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/MS/W.No.15/CSR-04/314d/CEMENT/2016-17 Date: 07.04.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. M. Sudeep,** #1271, 9th Main Road, WOC Road, 2nd Stage, Mahalakshmipuram, Bangalore – 560 086.
*** Name of Work**	:	Improvements & Construction of drainage works Mare Gowda road 2nd Main Kempe Gowda Nagara in Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
*** Reference**	:	EE/DD/WO/02/2017-18 Dated: 06.04.2017
*** Sample ID**	:	Cement
Sample Received on	:	06.04.207
Period of Testing	:	06.04.2017 to 07.04.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	170 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

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Job No.: CTCE/BBMP/MS/W.No.15/CSR-04/314d/SAND-Gradation/2016-17 07.04.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. M. Sudeep,** #1271, 9th Main Road, WOC Road, 2nd Stage, Mahalakshmipuram, Bangalore – 560 086.
* Name of Work	: Improvements & Construction of drainage works Mare Gowda road 2nd Main Kempe Gowda Nagara in Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	: EE/DD/WO/02/2017-18 Dated: 06.04.2017
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 06.04.2017
Date of Testing	: 07.04.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.50	90-100	90-100	90-100	95-100
2.36	79.50	60-95	75-100	85-100	95-100
1.18	59.50	30-70	55-90	75-100	90-100
600 Micron	29.50	15-34	35-59	60-79	80-100
300 Micron	13.90	5-20	8-30	12-40	15-50
150 Micron	7.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/MS/W.No.15/CSR-04/314d/AGG/GR/2016-17 07.04.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. M. Sudeep,** #1271, 9th Main Road, WOC Road, 2nd Stage, Mahalakshmipuram, Bangalore – 560 086.
* Name of Work	:	Improvements & Construction of drainage works Mare Gowda road 2nd Main Kempe Gowda Nagara in Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/02/2017-18 Dated: 06.04.2017
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	06.04.2017
Date of Testing	:	07.04.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.90	95-100	85-100
20	36.90	30-70	0-20
10	18.38	10-35	0-5
4.75	3.34	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/MS/W.No.15/Steel/2016-17

07.04.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. M. Sudeep,** #1271, 9th Main Road, WOC Road, 2nd Stage, Mahalakshmipuram, Bangalore – 560 086.
* Name of work	:	Improvements & Construction of drainage works Mare Gowda road 2nd Main Kempe Gowda Nagara in Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/02/2017-18 Dated: 06.04.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	07.04.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	512	514	13.15	O.K	O.K

*Information is furnished by the Customer/Representative.

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಗಂಗಾಧರೇಶ್ವರ ದೇವಸ್ಥಾನ
ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/MS/W.No.15/Steel/2016-17 07.04.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. M. Sudeep,** #1271, 9th Main Road, WOC Road, 2nd Stage, Mahalakshmipuram, Bangalore – 560 086.
* Name of work	:	Improvements & Construction of drainage works Mare Gowda road 2nd Main Kempe Gowda Nagara in Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/02/2017-18 Dated: 06.04.2017
* Samples ID	:	16 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	07.04.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	521	523	13.55	O.K	O.K

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ಪೂರ್ವ ವಲಯ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/MS/W.No.15/CSR-04/314d/Cube/2016-17

17.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. M. Sudeep,** #1271, 9th Main Road, WOC Road, 2nd Stage, Mahalakshmipuram, Bangalore – 560 086.
* Name of the work	:	Improvements & Construction of drainage works Mare Gowda road 2nd Main Kempe Gowda Nagara in Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/02/2017-18 Dated: 06.04.2017
* Sample ID	:	Culvert Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	17.04.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.04.2017	17.04.2017	8.228	330.8	14.70
2	10.04.2017	17.04.2017	8.305	343.2	15.25
3	10.04.2017	17.04.2017	8.412	350.2	15.56

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